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NOTICE OF ALLOWANCE AND FEE(S) DUE

29062

7500

03/16/2010

VERENIUM CORPORATION Intellectual Property Department P.O. Box 910550 SAN DIEGO, CA 92191-0550 EXAMINER

HUTSON, RICHARD G

PAPER NUMBER

1652

DATE MAILED: 03/16/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,621	12/21/2001	Walter Callen	D1350-6US	9848

TITLE OF INVENTION: POLYMERASE-ENCODING NUCLEIC ACIDS AND METHODS OF MAKING AND USING THEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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CURRENT CORRESPONDE	ENCE ADDRESS (Note: Use Bl	r	apers. Each addition	al paper.	g can only be used for icate cannot be used for such as an assignment ling or transmission.	r domestic mailings of the or any other accompanying nt or formal drawing, must	
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Intellectual Propo P.O. Box 910550)	S	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited w States Postal Service with sufficient postage for first class mail i addressed to the Mail Stop ISSUE FEE address above, or b transmitted to the USPTO (571) 273-2885, on the date indicated				
SAN DIEGO, CA	A 92191-0550	[(Depositor's name)	
			Ī				(Signature)
			[(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/034,621	12/21/2001	•	Walter Callen			D1350-6US	9848
TITLE OF INVENTION:	: POLYMERASE-ENCO	ODING NUCLEIC ACII	OS AND METHODS O	F MAKING AND US	SING TI	HEM	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	06/16/2010
EXAMI	INER	ART UNIT	CLASS-SUBCLASS				
HUTSON, R	ICHARD G	1652	536-023200				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (I) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
(A) NAME OF ASSIC	ess an assignee is identi nin 37 CFR 3.11. Comp 3NEE	ified below, no assignee oletion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e patent. If an assign an assignment. TY and STATE OR	COUNT	TRY)	ocument has been filed for bup entity
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			o. Payment of Fee(s): (F	d. card. Form PTO-203	8 i s atta	iched. required fee(s), any de	
5. Change in Entity Stat	cus (from status indicated s SMALL ENTITY statu	*	☐ b. Applicant is no	onger claiming SMA	LL ENT	ГІТҮ status. See 37 СЕ	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	l Publication Fee (if requecords of the United Sta	aired) will not be accepte tes Patent and Trademark	d from anyone other that Office.	n the applicant; a reg	istered a	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name	e			Registration 1	No		
an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 223	iality is governed by 35 application form to the ons for reducing this builtinginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR bersons are required to re	1.14. This collection is depending upon the ine Chief Information Of COMPLETED FORMS	estimated to take 12 dividual case. Any c icer, U.S. Patent and TO THIS ADDRES	minutes omment Traden S. SENI	s to complete, including s on the amount of time nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,



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10/034,621 12/21/2001		Walter Callen	D1350-6US 9848			
29062 75	90 03/16/2010		EXAMINER			
VERENIUM CO	RPORATION	HUTSON, RICHARD G				
Intellectual Propert	y Department	ART UNIT	PAPER NUMBER			
P.O. Box 910550 SAN DIEGO, CA	92191-0550	1652 DATE MAILED: 03/16/201	0			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/034,621	CALLEN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Richard G. Hutson	1652	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not includ on will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to paper filed on 11/4/20	<u>009</u> .		
2. The allowed claim(s) is/are <u>1-3,7,9-12,16,28-33,36,37,39-4</u>	43,46-49,51,52 .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. ☐ Copies of the certified copies of the priority do	• •		tion from the
International Bureau (PCT Rule 17.2(a)).	damento have been received in thi	o national stage applica	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PT0	O-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal 6. ☐ Interview Summar Paper No./Mail D 7. ☒ Examiner's Amen 8. ☐ Examiner's Staten 9. ☐ Other	y (PTO-413), ate dment/Comment	owance

Applicant's cancellation of claim 55 and the filing of a terminal disclaimer, in the paper of 11/4/2009, is acknowledged. Claims 1-3, 7, 9-12, 16, 28-43, 46-49, 51 and 52 are still at issue and are present for examination.

Claims 34, 35, 38 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Terminal Disclaimer

The terminal disclaimer filed on 1/20/2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of patent No. 6,492,511 has been reviewed and is accepted. The terminal disclaimer has been recorded.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jennifer Risser on 3/11/20109.

The application has been amended as follows:

Art Unit: 1652

Cancel claims 34, 35, and 38.

In claim 12, after "SEQ ID NO:1," delete " or a sequence encoding enzymatically active fragments of SEQ ID NO:2;".

In claim 16, after "encoding" delete "(a) and after "activity and" insert "comprising".

In claim 16, after "SEQ ID NO:2" delete "SEQ ID NO:1," delete ", or (b) enzymatically active fragments of (a)".

In claim 39, change "expressing the polypeptide" to "expressing the <u>encoded</u> polypeptide".

In claim 51 change "(a) a sequence" to" " an amino acid sequence" and delete "(b)".

In claim 51, change "the full length of (a)" to "the full length of said nucleic acid".

In claim 52, change "(a) a sequence" to" "an amino acid sequence" and delete "(b)".

In claim 52, change "the full length of (a)" to "the full length of said nucleic acid".

Allowable Subject Matter

Claims 1-3, 7, 9-12, 16, 28-33, 36, 37, 39-43, 46-49, 51 and 52 are allowed.

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Art Unit: 1652

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G. Hutson whose telephone number is 571-272-0930. The examiner can normally be reached on M-F, 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

rgh 3/11/2010

/Richard G Hutson/ Primary Examiner, Art Unit 1652